

Abstract of the Disclosure

A method of transmitting data over a single-channel wireless network having a plurality of nodes is disclosed. According to the method, a first link is established between two of the nodes and data is transmitted therebetween. A break in transmission between the two nodes is listened for, and a first predetermined time interval is waited if a break in transmission between two nodes occurs. A second predetermined time interval is established if the first predetermined time interval lapses with no detected transmission over the channel. The second predetermined time interval is divided into a plurality of slots, and each node randomly selects one of the slots. One of the nodes establishes a second link if that node has selected a slot earlier in time than slots selected by the remainder of the nodes.